

Title (en)

RECIPROCATING CUTTING AND DILATING BALLOON

Title (de)

HIN- UND HERGEHENDER SCHNEIDE- UND DILATATIONSBALLON

Title (fr)

BALLONNET DE COUPE ET DE DILATATION A VA-ET-VIENT

Publication

**EP 1581298 A1 20051005 (EN)**

Application

**EP 03814604 A 20031014**

Priority

- US 0332465 W 20031014
- US 33092602 A 20021227

Abstract (en)

[origin: US2003144677A1] An apparatus for incising a stenosis within a vascular conduit of a patient includes an inflatable balloon attached to an elongated catheter that defines a longitudinal axis. The distal end of the balloon includes a tapered section and at least one incising blade is attached to the tapered section. Each incising blade is oriented on the tapered section with the proximal end of the blade radially distanced from the longitudinal axis at a distance  $r_1$  and the distal end of the incising blade radially distanced from the longitudinal axis at a distance  $r_2$ . After the balloon has been inflated, each incising blade is oriented with  $r_1 > r_2$  to position the incising blades at an angle relative to the axis. This cooperation of structure allows the incising blades to cut an incision into a stenosis during axial advancement of the inflated balloon.

IPC 1-7

**A61M 25/10**; **A61B 17/22**

IPC 8 full level

**A61F 2/958** (2013.01); **A61B 17/22** (2006.01)

CPC (source: EP US)

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**A61M 25/1002** (2013.01 - EP US)

Citation (search report)

See references of WO 2004060467A1

Cited by

US9962529B2; US10722694B2; US10086178B2; US11571554B2; US10314947B2; US10471184B2; US10117668B2; US10485571B2;  
US10736652B2; US10076641B2; US10342960B2; US11420030B2

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DE 60307897 D1 20061005; DE 60307897 T2 20070308; EP 1581298 A1 20051005; EP 1581298 B1 20060823; JP 2006512137 A 20060413;  
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